

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In application of:
FUJISHIRO et al.

Application No.: 10/074,756

Filed: February 12, 2002

For: **FLUORESCENT LAMP, FLUORESCENT
LAMP UNIT, LIQUID CRYSTAL DISPLAY:
DEVICE, AND METHOD OF EMITTING
LIGHT**

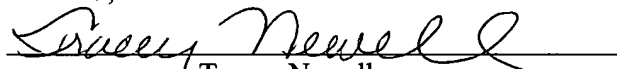
Art Unit: To be assigned

Examiner: To be assigned

Docket No.: AKM-00601

Certificate of Mailing

I hereby certify that the foregoing documents are being deposited with the United States Postal Service as First Class mail, postage prepaid, in an envelope addressed to the Commissioner for Patents Washington, D.C. 20231, on this date of March 5, 2002.


Tracey Newell

TRANSMITTAL OF FORMAL DRAWINGS

Sir:

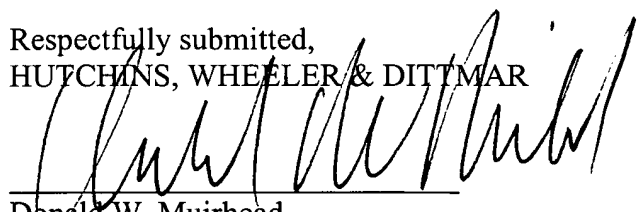
Applicant hereby submits fourteen (14) drawing sheets containing Figs. 1A to 19D in the above-referenced patent application.

Should there be any questions after reviewing this paper, the Examiner is invited to contact the undersigned at (617) 951-6676.

March 5, 2002
Date

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Respectfully submitted,
HUTCHINS, WHEELER & DITTMAR


Donald W. Muirhead
Reg. No. 33,978

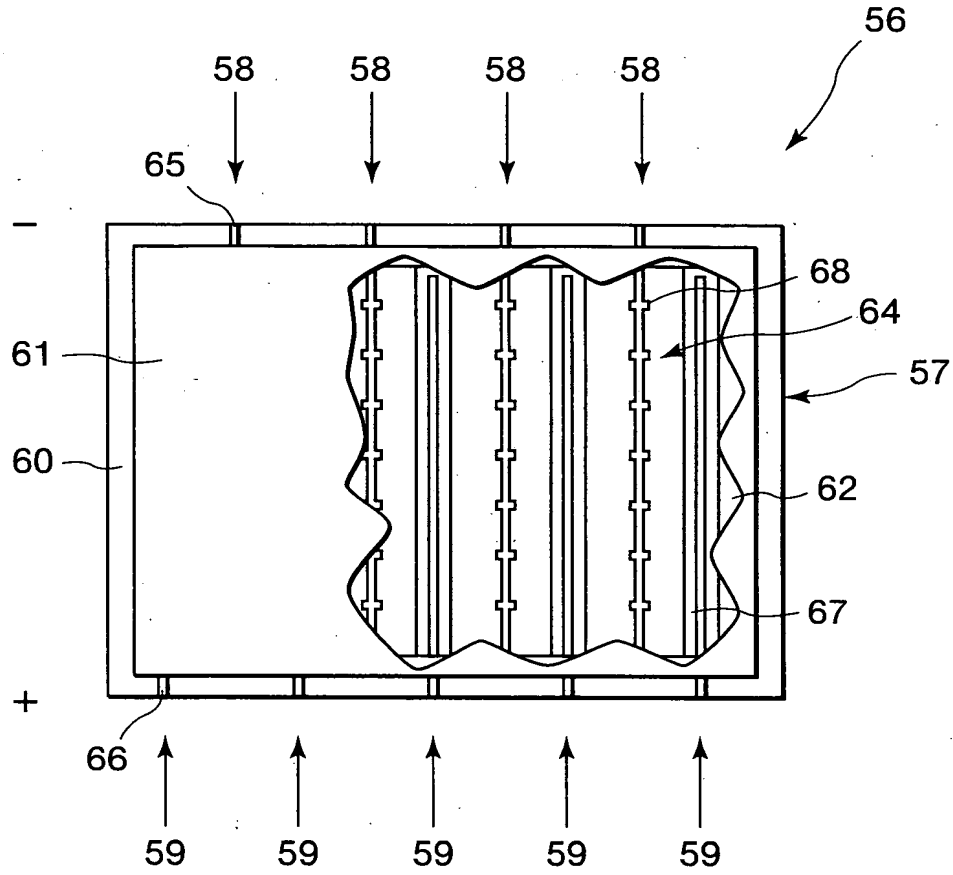


FIG. 1A (PRIOR ART)

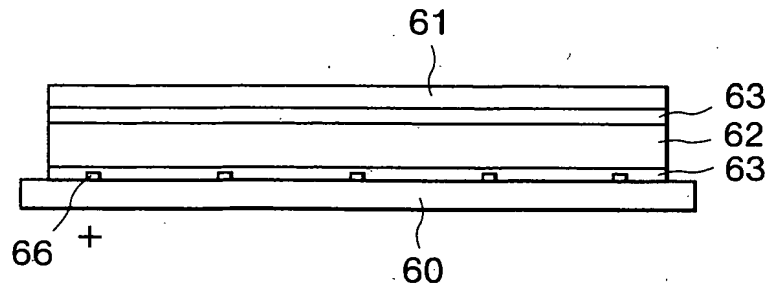


FIG. 1B (PRIOR ART)

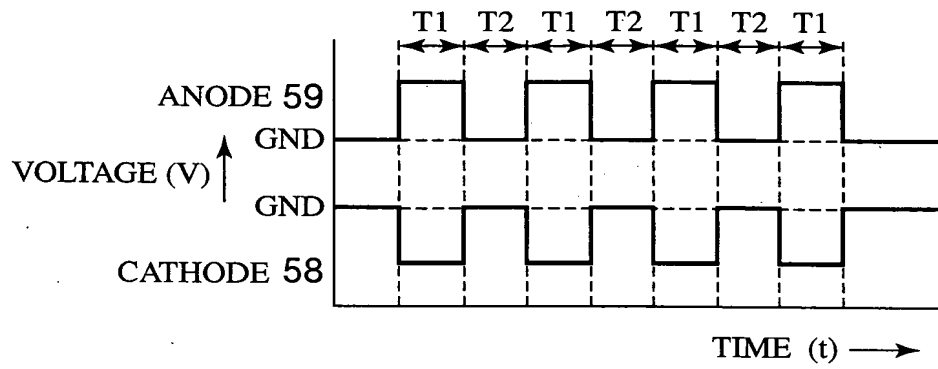


FIG.2 (PRIOR ART)

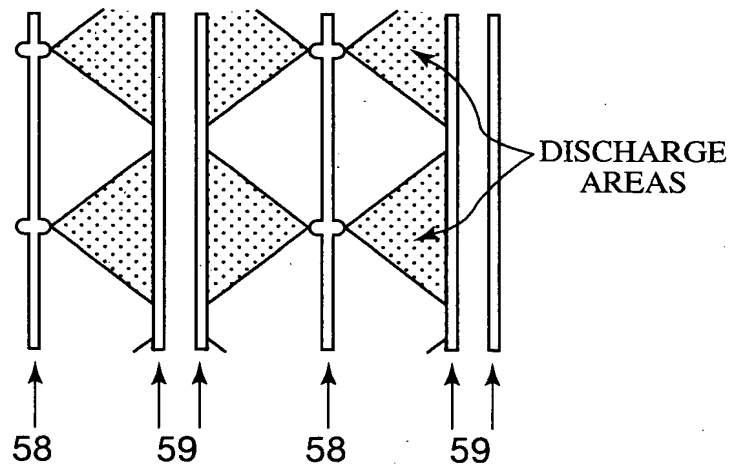


FIG.3 (PRIOR ART)

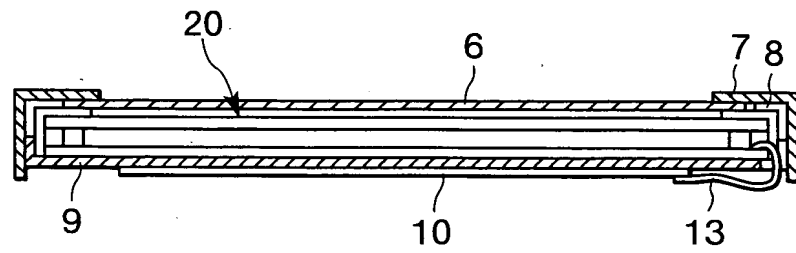


FIG. 4

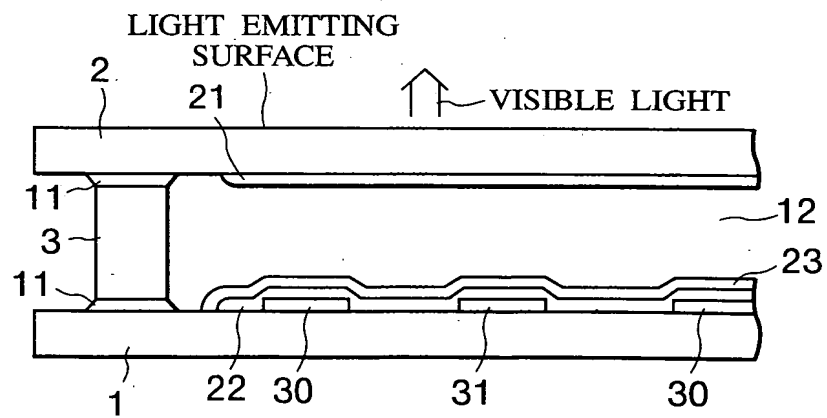


FIG. 5

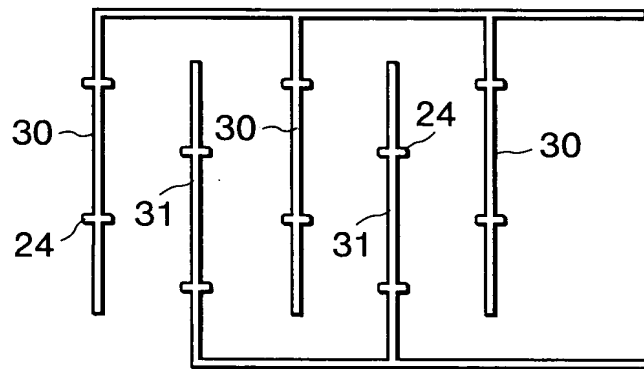
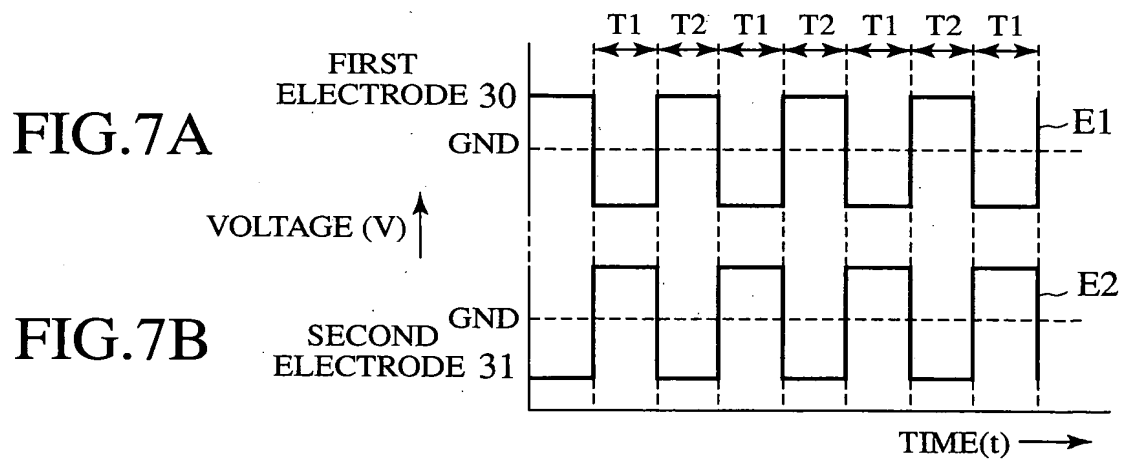


FIG.6



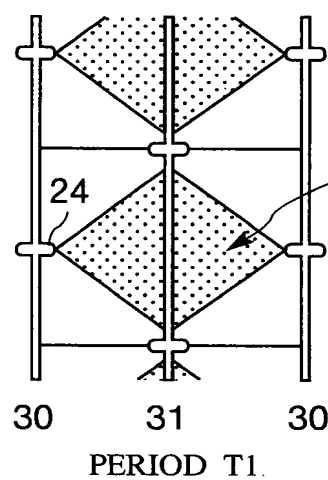


FIG.8A

DISCHARGE
AREAS

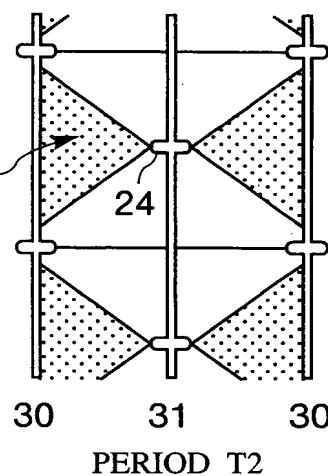


FIG.8B

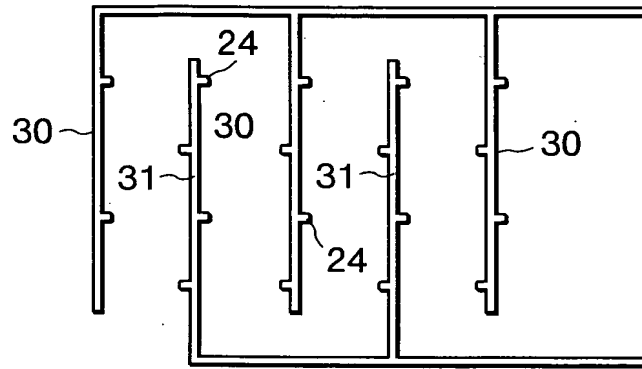


FIG.9

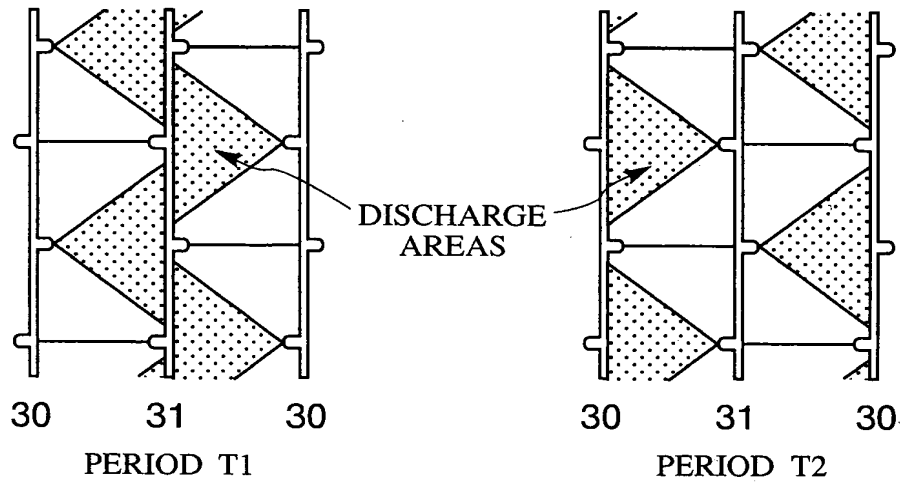


FIG.10A

FIG.10B

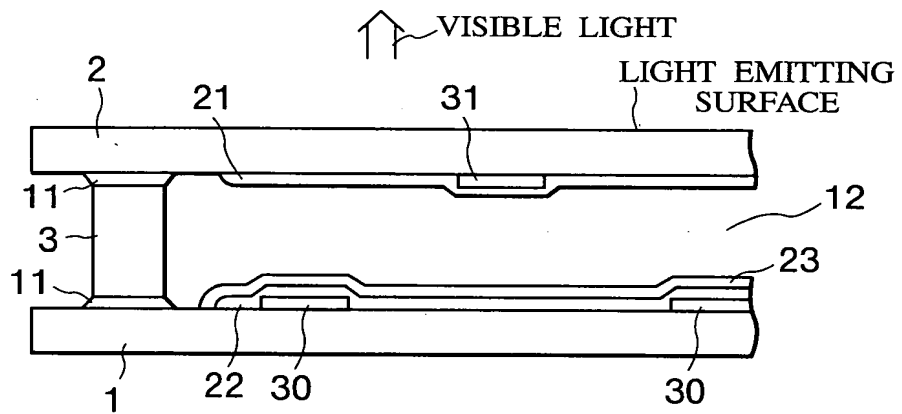


FIG.11

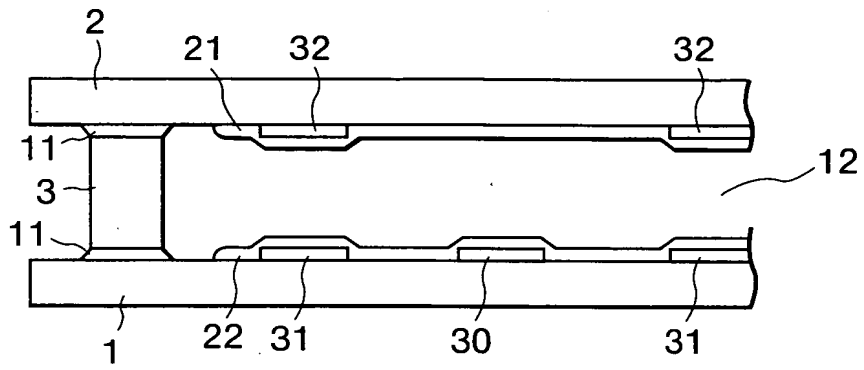


FIG. 12

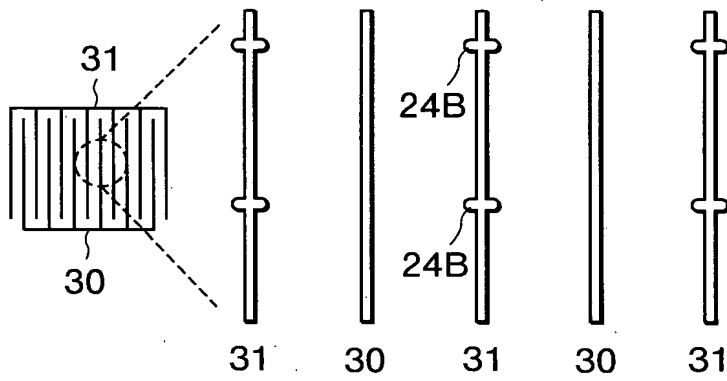


FIG. 12A

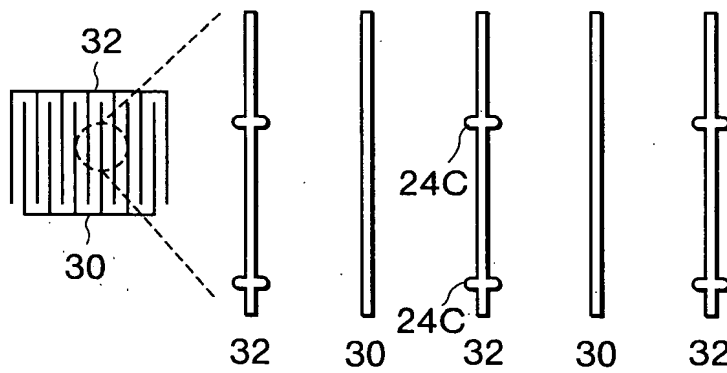


FIG. 12B



FIG.13B

FIG.13C

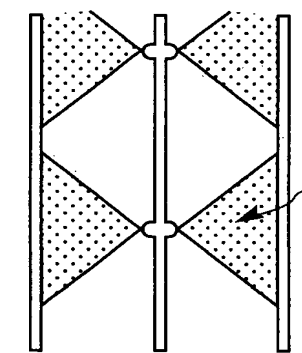


FIG.14A

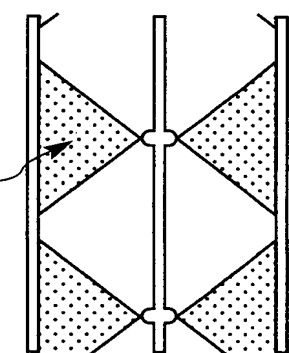
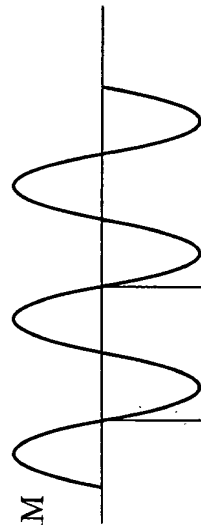


FIG.14B

DRIVING
WAVEFORM

FIG.15A

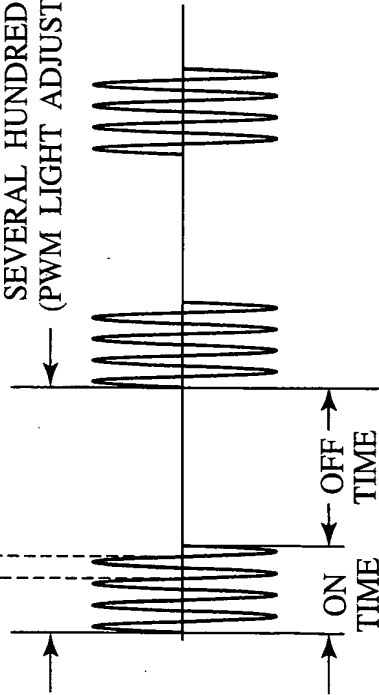


← FREQUENCY : SEVERAL TEN kHz TO SEVERAL HUNDRED kHz
(CYCLE : SEVERAL TEN μs TO SEVERAL HUNDRED μs)

SEVERAL HUNDRED Hz

← (PWM LIGHT ADJUSTING CYCLE : SEVERAL TEN ms TO SEVERAL ms)

FIG.15B



FOR EXAMPLE, 10% LIGHT ADJUSTING DEGREE MEANS
EQUATION " ON TIME / PWM LIGHT ADJUSTING CYCLE = 10% " IS SATISFIED

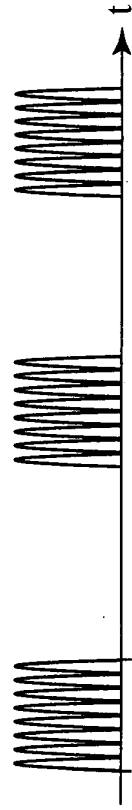


FIG. 16A
FIRST
ELECTRODE 30

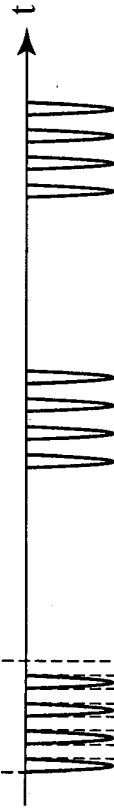


FIG. 16B
SECOND
ELECTRODE 31



FIG. 16C
THIRD
ELECTRODE 32

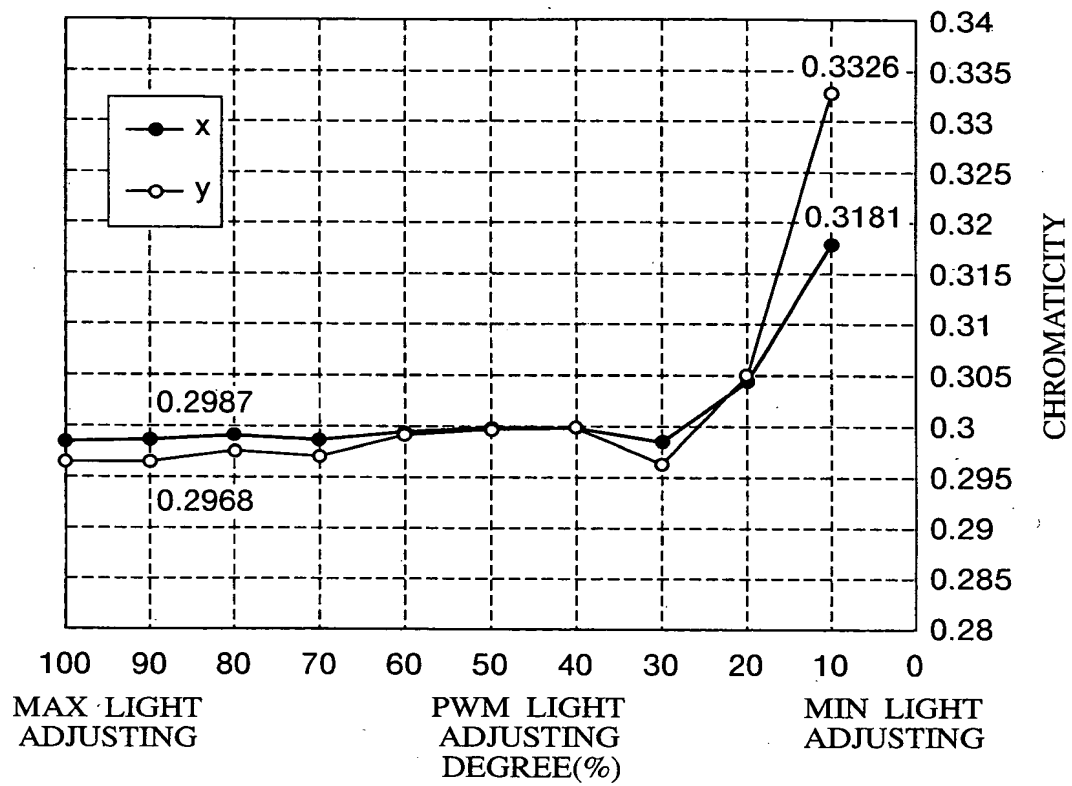


FIG.17

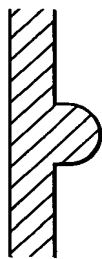


FIG. 18A



FIG. 18B

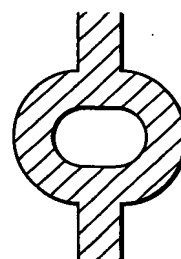


FIG. 18C

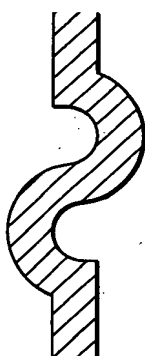


FIG. 18D

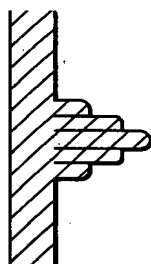


FIG. 18E

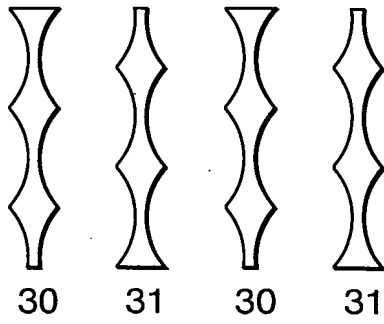


FIG. 19A

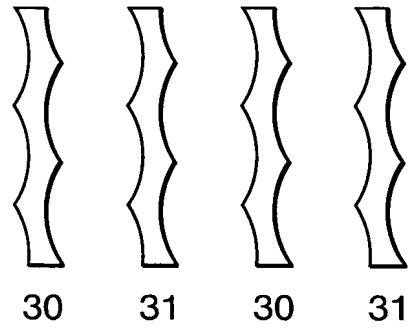


FIG. 19B

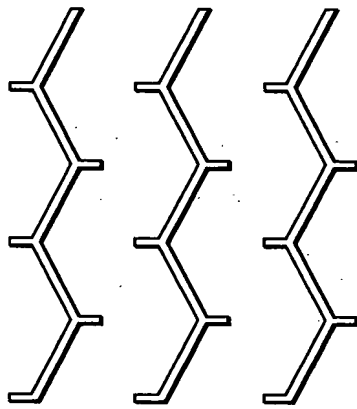


FIG. 19C

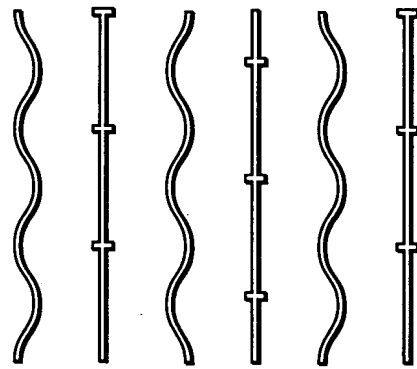


FIG. 19D